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Graduate School

1947-48



27th Year

Schedule of Classes

Fall Semester

REGISTRATION—Begins September 8

HOURS:

9:00 A.M. to 6:20 P.M., Monday through Friday

9:00 A.M. to 1:00 P.M., Saturday, September
13, 20

Veterans are requested to register:

3:00 P.M. to 6:20 P.M., Monday through Friday

9:00 A.M. to 1:00 P.M., Saturday, September
13, 20

CLASSES BEGIN WEEK OF SEPTEMBER 22

Time Schedule and Supplement to 1947-48 Bulletin

Complete details, including rules and regulations, policies, and course descriptions, are given in the 1947-48 Bulletin, a copy of which may be obtained by writing (use form on bottom of page) or by calling in person. **Please do not telephone.** Counselors and training officers of your agency have a copy which you may examine.

Counseling on courses and programs of study is available at all times from members of the School staff who are glad to assist students in planning their work.

Registration: begins September 8 (Room 1031, South Building, Department of Agriculture). See schedule of hours on front cover. No one will be registered for credit after October 3, except with special permission of instructor and Registrar. A late registration fee of \$1.00 per course will also be charged after October 3. Registration closes in a course when the maximum for that class is reached.

Textbooks may be purchased in Room 1041, South Agriculture Building, from 4:30 to 6:20 p.m., September 15 through October 10, Monday through Friday. Open Saturday, September 20, 9:00 a.m. to 1:00 p.m.

Refund of fees, less \$3.00 registration fee, may be granted in case of withdrawal before 6:20 p.m., October 3. After this date no refunds will be approved unless the student is compelled to leave Washington because of official governmental action.

Room schedules will be posted on the 4th and 7th wing bulletin boards in the South Agriculture Building.

Classes begin during week of September 22, end the week of January 12.

Graduate School, Department of Agriculture
Washington 25, D.C.

Please send me your 1947-48 BULLETIN.

Name

Street

City Zone
No.....

Explanation: Basic information about each course is given in the following order: course number, title, instructor, day and hour of class meeting, fee, and page of 1947-48 **Bulletin** on which description may be found. The first half and the second half of a course are indicated by a and b respectively.

BIOLOGICAL SCIENCES

- 110. **General College Biology** (Olson) M-Th 6:30-9 \$32
and \$5 laboratory fee p. 20
- 209. **Systematic Botany**¹ (Blake) M 5-7 \$16 p. 20
- 200. **Poultry Husbandry**¹ (Knox, Bird and Specialists) M
5-7 \$16 p. 20
- 201. **Beekeeping** (Nolan) Tu 7-9 \$16 p. 20
- 546. **Advanced Insect Morphology** (Snodgrass) M 7-9
\$18 p. 21
- 512. **Medical and Veterinary Entomology** (Bishopp) M
6-8 \$18 p. 21
- 603. **Advances in Plant Breeding and Genetics**¹ (Steven-
son and Specialists) M 5-7 \$18 p. 22
- 609. **Recent Developments in Plant Physiology and
Plant Nutrition**¹ (Cullinan and Specialists) M 5-7
\$18 p. 22

LANGUAGES AND LITERATURE

- 222. **English Composition** (Miller) Tu 6-9 \$24 p. 23
- 223. **Descriptive English Grammar** (Harman, K. Ward)
M 6-8 \$16 p. 24
- 51. **College English for Foreign Students** (H. Williams)
M 7-9 \$16 p. 24
- 118. **Practical English Usage** (C. White) Th 6-8 \$16
p. 24
- 119. **Vocabulary Building** \$16 p. 24
Section I¹ (Becker) M 5-7
Section II (Greene) Th 6-8
- 224. **Creative Writing** (Holt) Tu 6-8 \$16 p. 24
- 330. **Great Books** (Scotfield) M 6:30-8:30 \$16 p. 25
- 228. **Fundamentals of Speech** (Mohler) Th 6-8 \$16
p. 25
- 232. **Voice and Remedial Speech** (Emery) Tu 6-8 \$16
p. 26
- 50. **Speech Clinic** (Emery) Schedule to be arranged
\$30 p. 26
- 320. **Introduction to Public Information Media** (Fitz-
patrick) W 6-8 \$16 p. 27
- 225. **Editing** (Merrill and Specialists) M-W 7:15-8:45 \$24
p. 27
- 226^a. **Writing for Official Purposes** (McClarren and Spe-
cialists) Th 6:30-8:30 \$16 p. 28
- 245. **Radio Script Writing** (Molohon) M 6-8 \$16 p. 28
- 240. **Visual Presentation in Federal Information Work**
(Webster and Specialists) Th 6-8 \$16 p. 28
- 120. **Indexing** (Doyle, Bradley) W 6-7 \$8 p. 29
- 237. **Government Printing Procedure** (L. Anderson) Th
6:30-8:30 \$16 p. 29
- 43. **Personal Development** (Provensen, Galvin) Tu 6-8
\$16 p. 29
- 253^a. **Elementary French** (Humphrey) M-Th 6-7:30 \$24
p. 32
- 254^a. **Intermediate French** (Humphrey) Tu-F 6-7:30 \$24
p. 32
- 255^a. **Conversational French** (Given) W 6-9 \$24 p. 32
- 259^a. **Elementary German** (Marianne Lederer) M-Th 6-
7:30 \$24 p. 32
- 259^b. **Elementary German** (Ponti) Th 6-9 \$24 p. 32
- 260^a. **Intermediate German** (Max Lederer) W 6-9 \$24
p. 32
- 261^a. **Conversational German** (Bauer) W 6-9 \$24 p. 32
- 270^a. **Elementary Italian** (Rossetti) W 6-9 \$24 p. 32
- 271^a. **Intermediate Italian** (Rossetti) Th 6-9 \$24 p. 32

¹ To be given at the Agricultural Research Center, Beltsville.

- 295^a. Elementary Russian \$24 p. 33
 Section I (Schuler) M 6-9
 Section II (Tarakus) W 6-9
- 295^b. Elementary Russian (Tarakus) M 6-9 \$24 p. 33
- 296^a. Intermediate Russian (Saharov) Tu 6-9 \$24 p. 33
- 297^a. Conversational Russian (Saharov) W 6-9 \$24 p. 33
- 300^a. Elementary Spanish \$24 p. 33
 Section I (Batista) W 6-9
 Section II (E. Jaffe) Th 6-9
- 300^b. Elementary Spanish (B. Supervia) M 6-9 \$24
 p. 33
- 301^a. Intermediate Spanish (Parsons) W 6-9 \$24 p. 33
- 302^a. Spanish Conversation and Literature (R. Supervia)
 Tu 6-8 \$16 p. 34
- 574^a. Advanced Spanish Conversation (B. Supervia) Th
 6-8 \$18 p. 34
 Intensive Language Instruction (See the Registrar)
 p. 30
 Directed Language Study (See the Registrar) p. 31

MATHEMATICS AND STATISTICS

MATHEMATICS

1. Review of Freshman Mathematics (Schell) Tu 6-9
 \$24 p. 40
2. Review of Calculus (H. Horton) Th 6-9 \$24 p. 40
102. Algebra (Rhodes) M-F 7-8:30 \$24 p. 41
206. Calculus (Finan) W-F 6-7:30 \$24 p. 41
502. Differential Equations (Cook) Th 6:30-9:30 \$27
 p. 41
712. Theory of Functions (Winston) Th 6:30-8:30 \$18
 p. 42

STATISTICS

123. Survey of Statistics (Nisselson) W 6-9 \$24 p. 43
126. Introductory Statistics (Purves) W 6:15-8:15 \$16
 p. 43
- 127^a. Elementary Statistical Analysis \$16 p. 43
 Section I¹ (Marcuse) M 5-7
 Section II (Weiss) M 6-8
- 127^b. Elementary Statistical Analysis (Steinberg) Th 6-8
 \$16 p. 44
516. Intermediate Statistics (Tepping) Tu 6-8 \$18 p. 44
318. Machine Tabulation (Kaufman) W 6:30-8:30 \$12
 p. 44
319. Advanced Study of Tabulating Equipment (Kauf-
 man) F 6:30-8:30 \$12 p. 44
520. Statistics of the Federal Government (Ullman) W
 6:30-8:30 \$18 p. 44
723. Design and Analysis of Complex Experiments
 (Brandt) W 6-8 \$18 p. 45
727. The Planning of Statistical Surveys (A. Jaffe) W
 7-9 \$18 p. 45
720. Errors in Surveys (Hausknecht) F 8-10 \$18 p. 45
600. Statistical Analysis in Industrial Research (Eisen-
 hart) M 7-9 \$18 p. 45
732. Sampling in Social and Economic Surveys (Nissel-
 son) Tu 6-9 \$27 p. 46
733. Theory of Sampling (Cornfield, W. D. Evans) M 6-8
 \$18 p. 46
735. Theory of Sample Surveys (Hansen, Hurwitz) W
 7:30-9:30 \$18 p. 46
734. Statistical Methods for Research Workers (Hen-
 dricks) Tu 6-8 \$18 p. 46
740. Advanced Analysis of Variance (Daly) W 6-9 \$27
 p. 47
021. Seminars in Sampling and Statistical Inference
 (Deming) Schedule to be announced
749. Control of Quality by Statistical Methods (Pabst)
 W 6-8 \$18 p. 47

¹ This section will be given at the Agricultural Research Center, Beltsville.

OFFICE TECHNIQUES

- 108. Administrative Procedure (Hickey, Adams) W 6-8 \$16 p. 50
- 208. Advanced Administrative Procedure (Moseley) M 6-8 \$16 p. 50
- 101. Business Mathematics (Botts) Th 6-8 \$16 p. 51
- 110. Federal Auditing Procedure (Cruikshank) M 6-8 \$16 p. 51
- 210. Advanced Federal Auditing Procedure (Collins) Tu 6-8 \$16 p. 51 [p. 51]
- 112. Federal Accounting Procedure (Tierney) F 6-9 \$24
- 116. Federal Budgetary Procedure (Wilhelm) M 6-8 \$16 p. 52
- 122. Federal Payroll Procedure (Krueger, W. Marshall) M 6-8 \$16 p. 52
- 115. Federal Purchasing Procedure (Scammahorn) M 6-8 \$16 p. 52
- 114. Federal Personnel Procedure (Mohagen) M 6-8 \$16 p. 53
- 214. Advanced Federal Personnel Procedure (Mohagen) Tu 6-8 \$16 p. 53
- 117. Records Management Procedure (Donaldson, C. T. Smith and Lecturers) Tu 6-8 \$16 p. 53
- 413. Office Management (Braun) M 6-8 \$18 p. 54
- 120. Government Letter Writing (Samson) F 6-8 \$16 p. 54
- 440. Writing Procedures and Instructions (Harris, Wylie) Th 6-8 \$18 p. 54
- 325. Secretarial Practices (Stephens) Th 6-8 \$16 p. 55
- 89. Review of Gregg Shorthand (N. Evans) Tu-Th 6-7:30 \$24 p. 57
- 129. Beginning Gregg Shorthand I (Richter) M-Tu-Th 6-7 \$24 p. 57
- 130. Beginning Gregg Shorthand II (Vale) M-Tu-Th 7:10-8:10 \$24 p. 57
- 230. Gregg Shorthand, 70 to 100 Words (Coffman) Tu-Th 6-7:30 \$24 p. 57
- 231. Gregg Shorthand, 100 to 130 Words (Toll) M-W 6-7:30 \$24 p. 57
- 335. Introduction to Reporting—Gregg, 130 to 150 Words (Foote) M-Th 6:30-8:30 \$32 p. 57

PHYSICAL SCIENCES

- 100. General College Chemistry (Williamson) M-Th 6:30-9 \$32 and \$7.50 laboratory fee p. 58
- 400. Advanced Organic Chemistry (Bowen) Th 6-8 \$18 p. 59
- 401. Agricultural Chemistry (Carter) W 6-8 \$18 p. 59
- 600. Fundamental Properties of High Polymers (Simha) M 7-9 \$18 p. 59
- 349. Physical Chemistry (Hamer) Tu 6-8 \$16 p. 59
- 522. Biochemistry (Johnston) W 6-8 \$18 p. 60
- 455. Geomorphology of the United States (Ray) Th 6:30-9:30 \$27 p. 61
- 156. Soil Conservation (Steele) Th 6-8 \$16 p. 62
- 157. Soil Fertility and Management¹ (Humbert) M 5-8 \$24 p. 62
- 452. Principles of Physical Metallurgy (Loring) Th 6-8 \$18 p. 63 [p. 63]
- 162. Principles of Meteorology (C. Johnson) Tu 6-9 \$24
- 533. Hydrology (Linsley) Th 6-9 \$27 p. 63
- 534. Introduction to Dynamic Meteorology (Teweles) M 6-8 \$18 p. 64
- 536. Physical and Synoptic Meteorology (Shands) W 6-9 \$27 p. 64
- 153. Introductory College Physics (Kilgore) M-Th 6:30-9 \$32 and \$5 Laboratory fee p. 64
- 430. Introduction to Modern Physics (Garstens) F 6-8 \$18 p. 65

¹ To be given at the Agricultural Research Center, Beltsville.

PUBLIC ADMINISTRATION

341. **American National Government** (C. W. Smith) Tu 6:30-8:30 \$16 p. 69
344. **Introduction to Public Administration** (Brown) W 6-9 \$24 p. 69
626. **Federal Administrative Management** (Becknell) M 6:15-8:15 \$18 p. 70
627. **Reporting to Top Management** (French) Tu 6-8 \$18 p. 70
555. **Principles and Techniques of O&M Work** (Gill, Divine) W 6-8 \$18 p. 73
780. **Establishing and Administering O&M Work** (Stone, Loftus) F 6:15-8:15 \$18 p. 73
519. **Work Measurement and Performance Standards** (McKillop and Specialists) Tu 6-8 \$18 p. 73
- **Organization and Methods Clinic** (McKillop) p. 73
525. **Financial Organization and Procedures of the Federal Government** (Tiller) Tu 6-8 \$18 p. 74
635. **Agency Budgetary and Financial Administration: Budget Formulation** (Roberts, Jump and Staff) Th 6-8 \$18 p. 74
561. **Public Personnel Administration** (Stahl) Tu 6-8 \$18 p. 75
530. **Selection and Placement** (McLean) Th 6-8 \$18 p. 76
629. **Tests and Measurements** (Carroll) Th 6-8 \$18 p. 76
559. **Position Classification** (Hill, Laxton) M 6-8 \$18 p. 76
643. **Advanced Position Classification** (Laxton, Findlay) Tu 6-8 \$18 p. 76
640. **Veterans Legislation and Administration** (Loggins and Specialists) Tu 6-8 \$18 p. 77
305. **Fundamentals of Accident Prevention** (Wetzel, Jenkins) W 6-8 \$16 p. 77
535. **Safety Engineering I: Technical Functions** (Wetzel, Jenkins) Tu 6-8 \$18 p. 77
620. **Training Management** (Henderson) Tu 6-8 \$18 p. 78
633. **Employee Relations and Employee Services** (Kraus) F 6-8 \$18 p. 78
842. **Personnel Division Management** (Couch) M 6-8 \$18 p. 78
320. **Introduction to Administrative Law and Procedure** (E. Johnson) Th 6-8 \$16 p. 79
637. **Management of Governmental Purchasing** (Scamhorn) Th 6-8 \$18 p. 80
- 352^a. **Principles of Accounting—First Half** \$24 p. 82
Section I (Rowe) M 6-9 W 6-7
Section II (Dye) Tu 6-9 Th 6-7
- 352^b. **Principles of Accounting—Second Half** (H. Marshall) Tu 6-9 Th 6-7 \$24 p. 83
- 353^a. **Intermediate Accounting—First Half** (Hord) M 6-9 \$24 p. 83
422. **Business Law** (Mostow) Tu 6:30-8:30 \$18 p. 83
354. **Federal Government Accounting** (C. Mason) W 6-9 \$24 p. 83
642. **Cost Accounting** (D'Alessandro) W 6-9 \$27 p. 84
645. **Federal Tax Accounting** (Moyer) M 6-9 \$27 p. 84
646. **Advanced Accounting Problems** (Acker) W 6-9 \$27 p. 84

SOCIAL SCIENCES

200. **Introduction to Economics, Theory and Institutions** (Allin) Th 6-8 \$16 p. 90
201. **Principles of Economics** (Burroughs) Tu 6-9 \$24 p. 90
705. **History of Economic Thought** (Wasserman) W 7-10 \$27 p. 90

528. **International Financial and Trade Policies** (Zaglits)
Th 6-8 \$18 p. 91
704. **Economic Theory of International Trade** (Wadleigh) W 6-8 \$18 p. 91
410. **Land Economics** (V. Johnson) Tu 6-8 \$18 p. 94
411. **Agricultural Finance** (D. Horton) W 6-9 \$27 p. 94
203. **Introduction to Marketing** (B. White) Th 6-9 \$24 p. 95
414. **Economics of Marketing** (Southworth) Tu 6:15-8:15 \$18 p. 95
Lectures on Agricultural Programs (Minor, T. Reid) M 4:30-5:30 as announced p. 96
530. **Methods of Price Analysis** (Been, Walsh) W 6:15-8:15 \$18 p. 95
716. **Seminar on Agricultural Policies** (Minor, Wells) M 6:15-8:15 every other week \$9 p. 96
700. **Basic Evaluation Adapted to Extension Teaching** (Sabrosky) Schedule to be announced p. 97
701. **Research Methods and Techniques as Applied to Extension Work** (Gallup) Schedule to be announced p. 97
695. **Extension Thesis** (Wilson) Schedule to be arranged p. 97
325. **Managing Personal Finances** (Larsen and Specialists) Tu 6-8 \$16 p. 98
521. **Economics of Food** (M. Reid) M 6-8 \$18 p. 98
460. **Introduction to Medical Economics** (Klem and Specialists) M 6-8 \$18 p. 99
305. **Introduction to Labor Problems** (Klein) Tu 6-8 \$16 p. 100
760. **Government and Labor Problems** (Ziskind) Tu 6-9 \$27 p. 101
427. **Psychology of International Politics** (Spitzer) M 6-9 \$27 p. 103
725. **Seminar in the Practice and Technique of International Administration** (Calderwood) W 6-8 \$18 p. 104
814. **World Agriculture** (Hainsworth, Purves, Whipple) Tu-Th 6-8 \$36 p. 104
065. **Food and Agriculture Organization of the United Nations: Background and Programs** (Hambidge, Rogers) W 6:30-8:30 \$16 p. 105
430. **Modern Russia** (Tereshtenko) W 6-9 \$27 p. 105
432. **Modern Japan** (Yoshioka) F 6-8 \$18 p. 106
337. **Principles of Transportation** (Nelson) Tu 6-9 \$24 p. 108
338. **Regulation of Communication** (Emery) Th 6-8 \$16 p. 107
601. **Traffic Management** (Perrin) Th 6-9 \$27 p. 109
651. **Commercial Air Transportation** (Robinson) Tu 6-9 \$27 p. 109
400. **Psychology of Human Relations** (Sparks) M 6-8 \$18 p. 110
501. **Social Psychology** (McKain) W 6-8 \$18 p. 110
504. **Personality Disorders** (Cornsweet) W 6-8 \$18 p. 111
505. **Principles of Interviewing** (Pryor, Bradford) W 6-8 \$18 p. 111
215. **General Sociology** (Raper) Th 6-9 \$24 p. 112
509. **La America Latina y los Estados Unidos** (Green) M 6-8 \$18 p. 113
516. **The Cultural Regions of the United States** (Taylor, Raper) M 6-9 \$27 p. 114

TECHNOLOGY

403. **Principles of Air Conditioning** (Dill) Tu 6:30-8:30 \$18 p. 117
501. **Transmission and Distribution Systems for Area Electrification** (Eardley) Th 6-9 \$27 p. 117

702. **Electric Utility Engineering** (Jessel) M 6-8 \$18
p. 117
706. **Advanced Hydraulics** (M. Mason) W 6:30-9:30 \$27
p. 117
301. **Soil Mechanics** (Barber) Th 6-9 \$24 p. 118
715. **The Engineers' Responsibility in the Administration of Contracts** (Seeley) W 6-8 \$18 p. 118
550. **Contracts and Specifications** (W. Smith and Specialists) Th 6:30-9:30 \$27 p. 119
553. **Engineering in Materials Supply Operations** (MacLeod) M 7-9 \$18 p. 119
215. **Route Surveying** (Rapple) M 6-8 \$24 (Field work, all day, every fourth Saturday) p. 120
212. **Elementary Aerial Photogrammetry** (Higginson) W-F 7-9 \$24 p. 121
214. **Cartography** (Everett) Tu 6-8 \$16 p. 121
321. **Pencil Sketching and Freehand Drawing** (Cadmus) M-W 6-8 \$24 p. 121
322. **Art Appreciation** (Richards) Tu 6-8 \$16 p. 121
323. **Drawing for Portraiture and Illustration** (Lazzari) M-W 6-8 \$24 p. 122
320. **Water Color Painting** (Lyon) M-Th 6-8 \$24 p. 122
- 331^a. **Home Decoration** (Garrels) W 6-7 \$8 p. 122
332. **Advanced Home Decoration** (Garrels) W 7-8 \$8 p. 122
316. **Landscape Development of the Small Property** (Gardner) Th 6-8 \$16 p. 122
324. **Basic Mechanical Drawing I** (Wiemer) Tu-F 6-8 \$24 p. 123
340. **Architectural Drafting I** (Wiemer) M-Th 6-8 \$24 p. 123
342. **Architectural Drafting III** (Wiemer) M-Th 6-8 \$24 p. 123
305. **Elements of Statistical Drafting** (Guidry) Tu 6-9 \$16 and \$2 laboratory fee p. 124
188. **Glass Blowing** (Clark) M-W 6-7:30 \$24 p. 124
70. **Popular Photography** (Knoblock) Tu 6-8 \$16 p. 125
192. **Fundamentals of Photography I** (Briggs) M 6-8 \$16 p. 125
193. **Practice of Photography I** \$16 and \$3 laboratory fee p. 125
Section I (Purdy) W 6-8
Section II (Briggs) Tu 6-8
194. **Fundamentals of Photography II** (Cobb) W 6-8 \$16 p. 125
195. **Practice of Photography II** (Purdy) M 6-8 \$16 and \$3 laboratory fee p. 125
307. **Color Photography—Theory** (Materazzi) Tu 6-8 \$16 p. 126
308. **Color Photography—Practice** (Mohr) Th 6-9 \$24 and \$5 laboratory fee p. 126
360. **Portrait Photography** (Towles) F 6-8 \$16 and \$4 laboratory fee p. 126

**Courses are open to non-Federal employees
insofar as facilities permit**

Spring Semester

February 2 through May 14

Schedule of Classes available January 2